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(54) **GAS CONCENTRATION DETECTOR AND INITIAL  
VALUE SETTING METHOD THEREFOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a gas concentration detector capable of regulating temperature correction factor and gas sensitivity without requiring complicated skill, and a method for setting its initial value.

SOLUTION: An ADC(analog-digital converting means) 30 A/D-converts the voltage across a gas sensor 1a and a temperature sensor 1b to obtain concentration information and temperature information. A memory means 60 stores the temperature information in the case of reference temperature and reference gas concentration, temperature coefficient of change amount per unit temperature of the temperature information, temperature coefficient of change amount per unit temperature of the concentration information, and concentration sensitivity coefficient of change amount per unit concentration of the concentration information. A concentration calculating means 40a-1 corrects the concentration information in the case of arbitrary temperature according to the temperature correction amount of the concentration information obtained by multiplying the difference between the temperature information in the case of the arbitrary temperature and the reference temperature by the temperature coefficient

of the temperature information, and multiplies the concentration information by the concentration sensitivity coefficient to obtain the concentration.

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